

Long Acting Injectable ART to Improve Adherence: Aspirations and Perils

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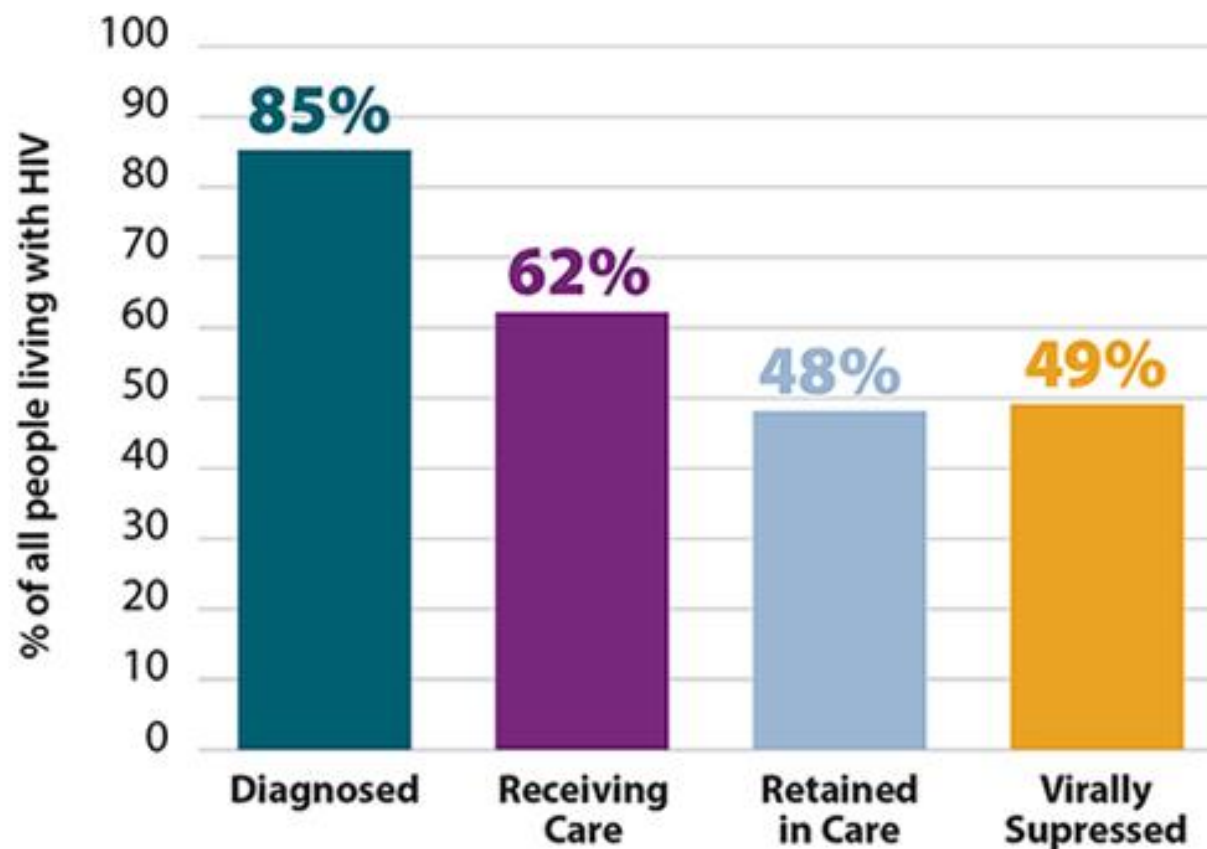
June 8, 2018

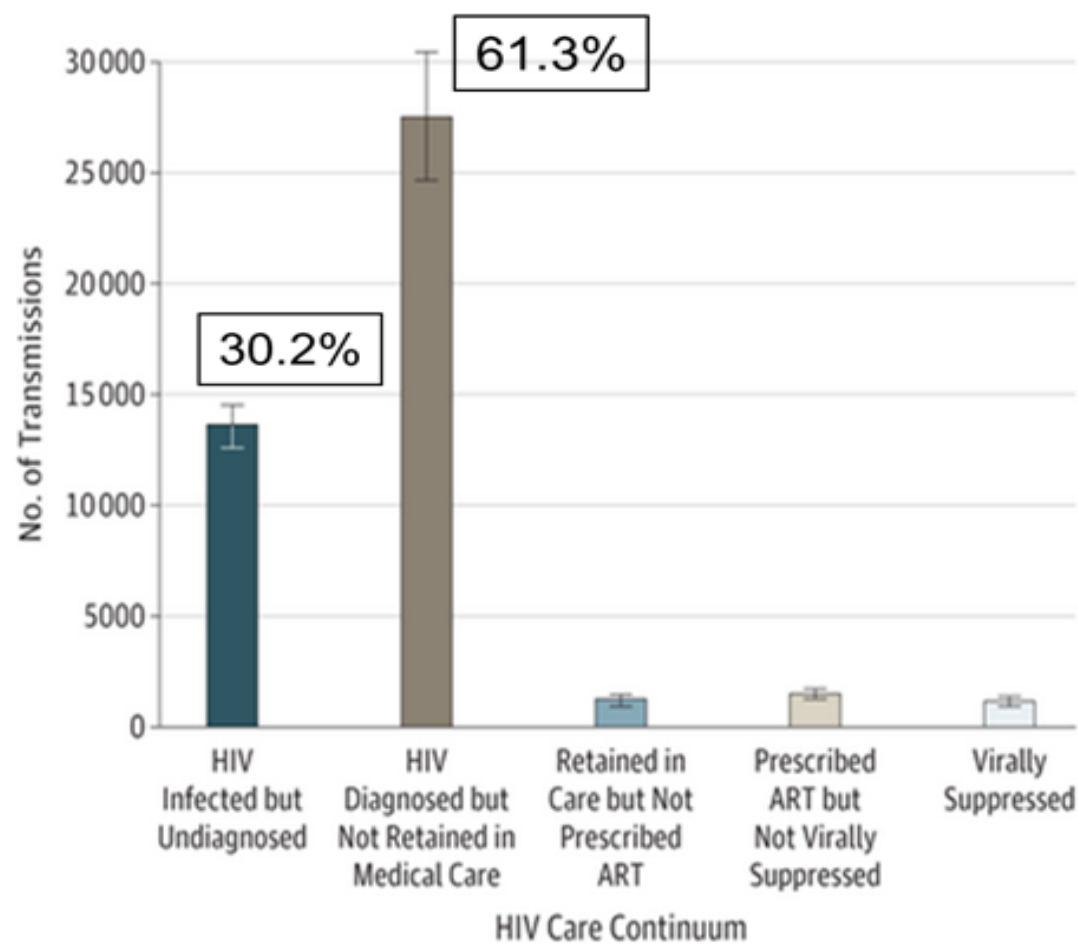
Disclosures

- K23 Career Developmental Grant from National Institute of Mental Health
- Discussing the use of the following drugs that are not FDA approved:
 - Oral cabotegravir
 - Long-acting cabotegravir injectable
 - Long-acting rilpivirine injectable

HIV Care Continuum, United States, 2014

An estimated 1.1 million people are living with HIV in the United States.

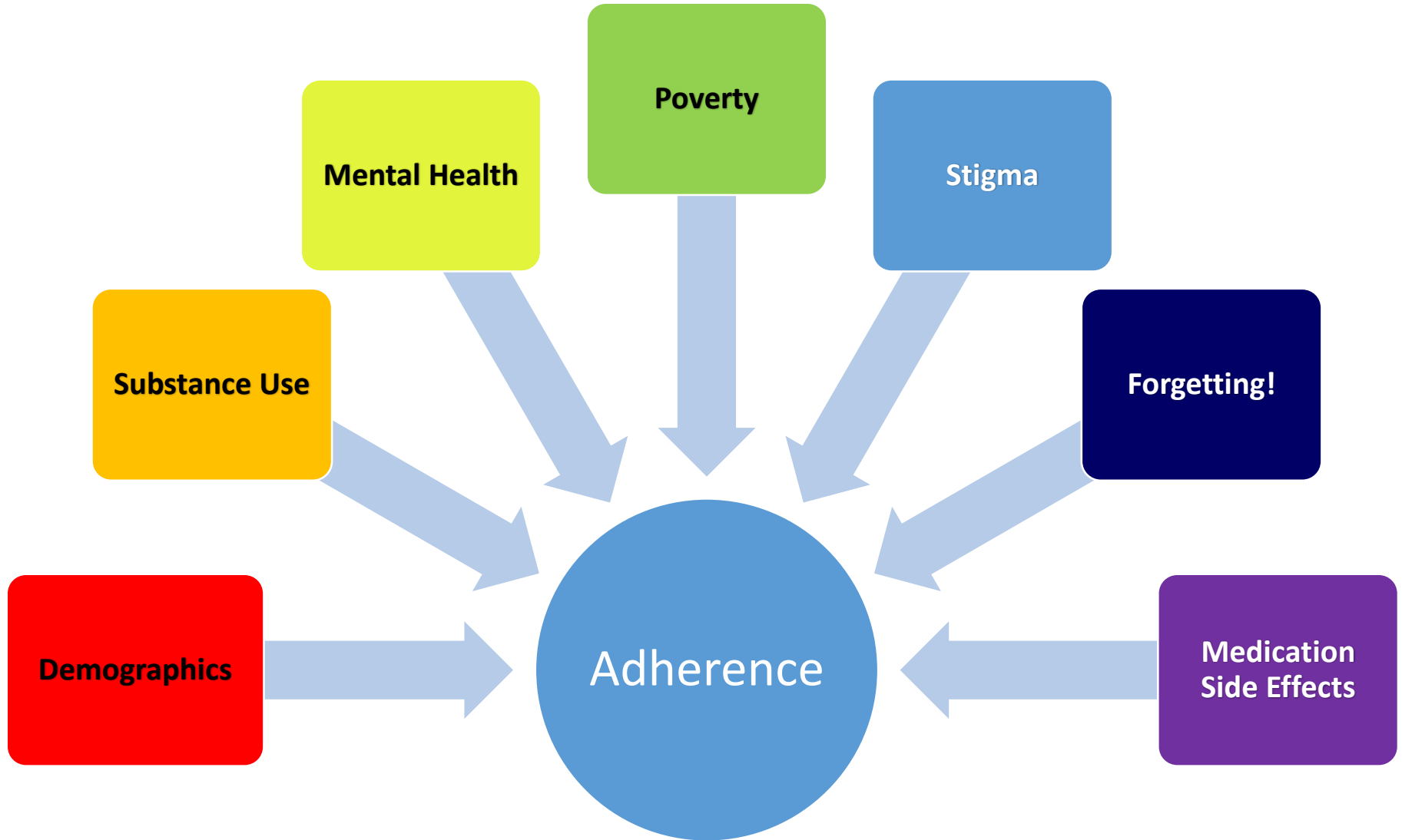




Using HIV Surveillance Data to Support the HIV Care Continuum

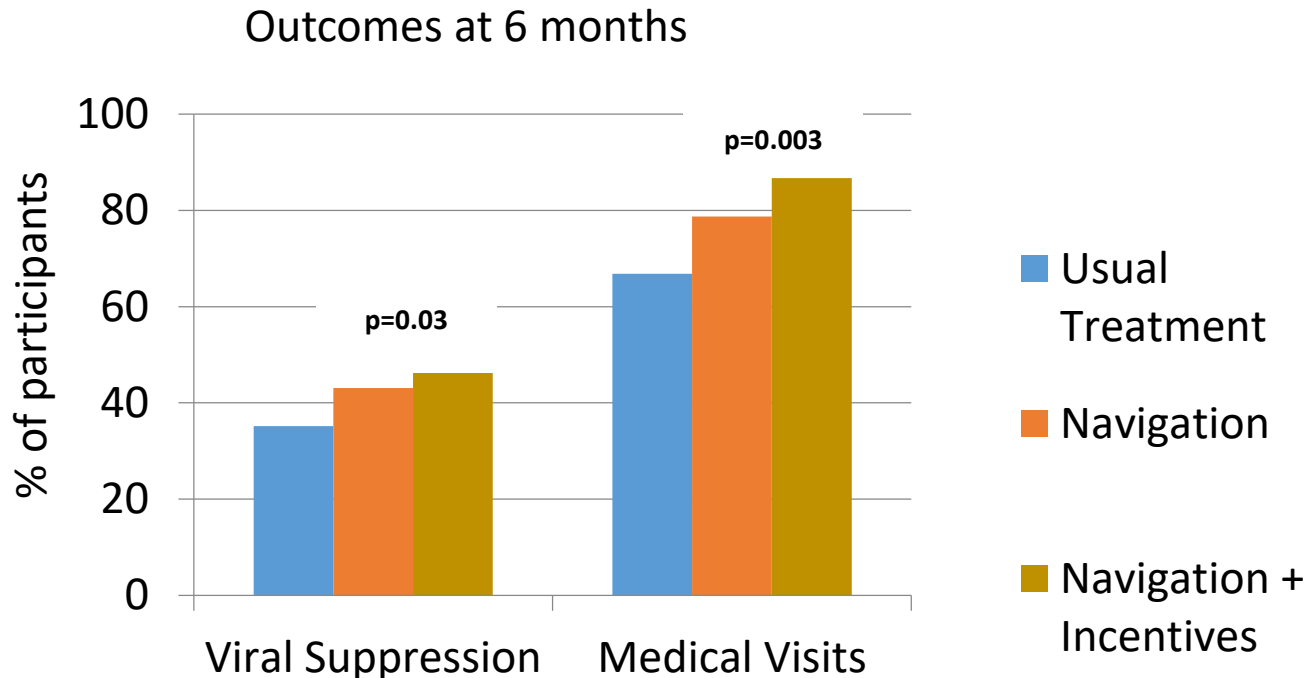
Skarbinski et al. *JAMA Intern Med* 2015;175

Assessing Barriers to Care and Treatment



Interventions

- ARTAS-Strengths based/Intensive Case Management
- Patient Navigation
- Enhanced Personal Contact
- Conditional Economic Incentives



Could LA ART have a role in addressing some of these barriers?

- Directly-Observed Therapy
- Intolerant of oral medications
- Competing Responsibilities
- Stigma
 - *At the beginning I thought...Oh my God...I hope I get over this depression. But, my God...I hope I won't be taking these pills all my life. Then I went on to the injectable phase...and it was like I saw the light. And I said, God...how easy and convenient this is. It was like seeing the light.*—Spain, Male trial participant
 - *I love it because I don't have to take a daily medication, so that's just one less thing on my plate that I have to worry about... I definitely feel there's less pressure. I like the injection because it's not a daily, in my face, I have to do this.*—U.S., Female trial participant
 - *In reality, taking the pill everyday keeps it [HIV] present ...and the shot is just once a month...you remember it when you come in and the rest of the time you can basically forget it.*—Spain, Male trial participant

Challenges with the use of LA ART

- Induction period on oral ART
- 2 drug ART regimen with rilpivirine and cabotegravir: limited to those WITHOUT an extensive history of resistance
- Long half-life of injectables: Risk of development of resistance
- Side-effects to Injections
- Cost
- Unstudied populations, Women of Child Bearing Potential





ACTG 5359

A Phase III Randomized-Control Trial to Evaluate Long-Acting Antiretroviral Therapy in Non-adherent HIV-Infected Individuals

Co- Chairs: Aadia Rana, Jose Castillo-Mancilla

Co- Vice Chairs: Raphael J. Landovitz, Karen Tashima

Investigators: Omar Galárraga (Behavioral Economist), Michael Stirratt (NIMH), Steve Shoptaw (NIDA), David Wohl

Pharmacologists: Adriana Andrade, Ed Acosta, Gene Morse

SDAC: Summer Zheng, Jeremiah Perez

DAIDS: Karin Klingman, Tia Morton

CTS: Mwenda Kudumu

CSS: Laurency Gaston

Industry Reps: Kim Smith (Viiv), Paul Wannamaker (Viiv), Viviam Cannon(Janssen)

Field Rep: Becky Straub (UNC)

A5359 Eligibility

- ART-experienced, HIV-infected males and non-pregnant females ≥ 18 years of age with:
 - HIV-1 RNA > 200 copies/mL
 - Evidence of non-adherence according to at least one of the following criteria:
 - Poor virologic response within 18 months prior to study entry (defined as $< 1 \log_{10}$ decrease in HIV-1 RNA or HIV-1 RNA > 200 copies/mL at two time points at least 4 weeks apart) in individuals who have been prescribed ART for at least 6 consecutive months.
 - Loss to clinical follow-up within 18 months prior to study entry with ART non-adherence for ≥ 6 consecutive months. Lost to clinical follow-up is defined as either no contact with provider or missed 2 or more appointments in a 6-month period. ART non-adherence is defined as a lapse in ART ≥ 7 days (consecutive or non-consecutive), in the 6-month period where they were lost to clinical follow-up per participant report.
 - No evidence of any clinically relevant RPV or INSTI resistance-associated mutations (historically or upon screening).
 - Ability of site clinician, in conjunction with participant, to construct a ≥ 3 -drug ART regimen with ≥ 2 drugs predicted to be fully active, including a boosted PI/cobi and/or an INSTI.

A 5359 Study Design

